

27
Harvard University

THE
DENTAL SCHOOL



1897

ANNUAL ANNOUNCEMENT
OF THE
DENTAL SCHOOL
OF
HARVARD UNIVERSITY

1897-98



CAMBRIDGE
Published by the University
1897

DENTAL SCHOOL CALENDAR.

1897.

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| <i>Sept. 27, Monday.</i> | Examinations for admission to the Dental School. |
| <i>Sept. 27, Monday.</i> | Examinations begin in the Dental School. |
| <i>Sept. 30, Thursday.</i> | Academic Year begins in all Departments of the University. Registration of Dental School Students. |
| <i>Oct. 30, Saturday.</i> | Last day for receiving dissertations for the Bowdoin Prize. |
| <i>Nov. 25, Thursday.</i> | Thanksgiving Day: a holiday. |

RECESS FROM DEC. 23, 1897, TO JAN. 2, 1898, INCLUSIVE.

1898.

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| <i>Jan. 1, Saturday.</i> | Last day for receiving dissertations for the Boylston Medical Prizes. |
| <i>Jan. 27, Thursday.</i> | Second half-year begins in the Dental School. |
| <i>Feb. 22, Tuesday.</i> | Washington's Birthday: a holiday. |

RECESS FROM APRIL 17 TO APRIL 23, INCLUSIVE.

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| <i>April 30, Saturday.</i> | Last day for receiving applications from students in the Professional Schools to be qualified for the degree of A.M. in 1897. |
| <i>April 30, Saturday.</i> | Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes. |
| <i>May 30, Monday.</i> | Memorial Day. |
| <i>June 1, Wednesday.</i> | Examinations in the Dental School begin. |
| <i>June 28, Tuesday.</i> | Examinations for admission to the Dental School. |
| <i>June 29, Wednesday.</i> | Commencement. |

SUMMER VACATION OF THIRTEEN WEEKS, FROM COMMENCEMENT TO
SEPTEMBER 29.

<i>July 5, Tuesday.</i>	Summer School opens.
<i>Sept. 26, Monday.</i>	Examinations for admission to the Dental School.
<i>Sept. 26, Monday.</i>	Examinations begin in the Dental School.
<i>Sept. 29, Thursday.</i>	Academic Year begins in all Departments of the University.
<i>Nov. 1, Tuesday.</i>	Last day for receiving dissertations for the Bowdoin Prize.
<i>Nov. 24, Thursday.</i>	Thanksgiving Day : a holiday.

HARVARD UNIVERSITY.

ADMINISTRATIVE OFFICERS.

THE UNIVERSITY.

President : CHARLES W. ELIOT, LL.D.

Office, 5 University Hall, Cambridge.

Treasurer : EDWARD W. HOOPER, A.B., LL.B.

Deputy Treasurer : ALLEN DANFORTH, A.M.

The office of the Corporation (and Treasurer and Deputy Treasurer) is at 50 State St., Boston. Office hours, 10 A.M. to 2 P.M. Saturday 10 A.M. to 12 M.

Bursar : CHARLES F. MASON, A.B.

Office, Wadsworth House, Cambridge. Office hours, 9 A.M. to 1 P.M.

Recording Secretary : BYRON S. HURLBUT, A.M.

Office, 5 University Hall, Cambridge. Office hours, Tuesday, Thursday, Friday, Saturday, 9 A.M. to 12 M. From July 1 to Aug. 15, 12 M. to 1 P.M. Aug. 16 to Sept. 30, daily, 9 A.M. to 12 M.

Corresponding Secretary : RICHARD COBB, A.B.

Office, 5 University Hall, Cambridge. Office hours, Monday, Wednesday, Friday, Saturday, 9 A.M. to 12 M. During summer vacation, daily, 9 A.M. to 12 M.

The Office, 5 University Hall, is open from 9 A.M. to 4 P.M. Saturday 9 A.M. to 12 M. (From Aug. 15 to Sept. 15, 9 A.M. to 1 P.M.)

THE FACULTIES, THE COLLEGE, AND THE PROFESSIONAL SCHOOLS.

Dean of the Faculty of Arts and Sciences : JAMES M. PEIRCE, A.M.

Office, 10 University Hall, Cambridge. Office hours, Tuesday, 11 A.M. to 1 P.M.

Recorder of the Faculty of Arts and Sciences : GEORGE W. CRAM, A.B.

Office, 5 University Hall, Cambridge. Office hours, 9 A.M. to 12 M., 2 P.M. to 4 P.M. Saturday 9 A.M. to 12 M.

Dean of Harvard College: LE BARON R. BRIGGS, A.M.

Office, 5 University Hall, Cambridge. Office hours, Monday, Tuesday, Friday, 10 A.M. to 12.30 P.M.

Regent of Harvard College: GEORGE A. BARTLETT, A.M.

Office, 5 University Hall, Cambridge.

Dean of the Lawrence Scientific School: NATHANIEL S. SHALER, S.D.

Office, 1 Museum.

Dean of the Graduate School: JOHN H. WRIGHT, A.M.

Office, 10 University Hall, Cambridge. Office hours, Monday, Thursday, 3 to 4 P.M.

Dean of the Divinity Faculty: CHARLES C. EVERETT, D.D., LL.D.

Office, 1 Divinity Library, Cambridge. Office hours Monday, Wednesday, Friday, 12 M., Tuesday, Thursday, Saturday, 10 A.M.

Secretary of the Divinity Faculty: ROBERT S. MORISON, A.M., D.B.

Office, Divinity Library. Office hours, daily, 9 A.M. to 1 P.M.

Dean of the Law Faculty: JAMES BARR AMES, A.M., LL.B.

Office, Austin Hall, Cambridge.

Dean of the Medical Faculty: WILLIAM L. RICHARDSON, A.M., M.D.

Office, Harvard Medical School, corner of Boylston and Exeter Streets, Boston. Office hours, Tuesday, Friday, 12.15 to 1 P.M.

Secretary of the Medical Faculty: CHARLES P. WORCESTER, A.B., M.D.

Office, Harvard Medical School, corner of Boylston and Exeter Streets, Boston. Office hours, Monday, Wednesday, 2 to 3 P.M.

Dean of the Dental Faculty: EUGENE H. SMITH, D.M.D.

The Dental School is on North Grove Street, Boston. The office of the Dean is at 283 Dartmouth St., Boston. Office hours, 9 A.M. to 4 P.M.

Acting Dean of the School of Veterinary Medicine: FREDERICK H.

OSGOOD, M.R.C.V.S.

Office, Veterinary Hospital, 50 Village Street, Boston.

Dean of the Bussey Institution: FRANCIS H. STORER, S.B., A.M.

The Bussey Institution is in Jamaica Plain. The nearest railway and telegraph station is Forest Hills, on the Boston and Providence Railroad.

THE DENTAL SCHOOL, BOSTON.

FACULTY.

- CHARLES W. ELIOT, LL.D., *President.*
EUGENE H. SMITH, D.M.D., *Dean, and Professor of Mechanical Dentistry and Orthodontia.*
HENRY P. BOWDITCH, M.D., *Professor of Physiology.*
J. COLLINS WARREN, M.D., LL.D., *Professor of Surgery.*
THOMAS DWIGHT, M.D., LL.D., *Professor of Anatomy.*
THOMAS FILLEBROWN, M.D., D.M.D., *Professor of Operative Dentistry.*
CHARLES A. BRACKETT, D.M.D., *Professor of Dental Pathology.*
WILLIAM B. HILLS, M.D., *Associate Professor of Chemistry.*
CHARLES S. MINOT, S.D., *Professor of Histology and Human Embryology.*
EDWARD C. BRIGGS, M.D., D.M.D., *Professor of Materia Medica and Therapeutics.*
HAROLD C. ERNST, M.D., *Professor of Bacteriology.*
JERE E. STANTON, M.D., D.M.D., *Assistant Professor of Oral Anatomy, Physiology, and Bacteriology.*
WILLIAM P. COOKE, D.M.D., *Instructor in Crown and Bridge Work and in Metallurgy.*
WILLIAM H. POTTER, D.M.D., *Lecturer in Operative Dentistry.*
FRANKLIN DEXTER, M.D., *Assistant Professor of Anatomy.*

OTHER INSTRUCTORS.

- EZRA F. TAFT, D.M.D., *Instructor in Operative Dentistry.*
FOREST G. EDDY, D.M.D., *Instructor in Operative Dentistry.*
GEORGE H. MONKS, M.D., *Instructor in Surgical Pathology.*
GEORGE L. WALTON, M.D., *Instructor in Neurology.*
DWIGHT M. CLAPP, D.M.D., *Clinical Lecturer in Operative Dentistry.*
EDWIN C. BLAISDELL, D.M.D., *Instructor in Operative Dentistry.*
WALDO E. BOARDMAN, D.M.D., *Instructor in Operative Dentistry, and Curator of the Dental Museum.*

* These lists are for 1896-97 and are subject to some changes for the coming year.

FREDERICK BRADLEY, D.M.D., *Instructor in Operative Dentistry.*
 HENRY L. UPHAM, D.M.D., *Instructor in Operative Dentistry.*
 ARTHUR H. STODDARD, D.M.D., *Instructor in Mechanical Dentistry.*
 PATRICK W. MORIARTY, D.M.D., *Demonstrator of Mechanical Dentistry.*
 ARTHUR J. OLDHAM, D.M.D., *Instructor in Mechanical Dentistry.*
 HARRY O. BIXBY, D.M.D., *Instructor in Mechanical Dentistry.*
 ARTHUR W. ELDRED, D.M.D., *Instructor in Mechanical Dentistry.*
 FRANK T. TAYLOR, D.M.D., *Instructor in Operative Dentistry.*
 JOSEPH T. PAUL, D.M.D., *Demonstrator of Operative Dentistry.*
 ALLEN S. BURNHAM, D.M.D., *Instructor in Mechanical Dentistry.*
 NATHAN P. WYLLIE, D.M.D., *Assistant Demonstrator of Operative Dentistry.*
 DWIGHT W. DICKINSON, D.M.D., *Assistant Demonstrator of Operative Dentistry.*
 THOMAS B. HAYDEN, D.M.D., *Instructor in Mechanical Dentistry.*
 ASHER H. STC. CHASE, D.M.D., *Instructor in Mechanical Dentistry.*
 EDWIN L. FARRINGTON, D.M.D., *Instructor in Operative Dentistry.*
 ROBERT J. McMEEKIN, D.M.D., *Assistant Demonstrator of Mechanical Dentistry.*
 HARRY W. HALEY, D.M.D., *Instructor in Mechanical Dentistry.*
 HARVEY W. HARDY, D.M.D., *Instructor in Operative Dentistry.*
 NEWTON S. BACON, *Instructor in Chemistry.*

STANDING COMMITTEES.

Executive Committee—Dean, Drs. Fillebrown, Brackett, Briggs, Stanton, Cooke, Potter.
Admission Examination—Drs. Stanton, Brackett, Briggs, Potter.
Building—Drs. Fillebrown, Bowditch, Smith.
Advertising and Catalogue—Dean, Drs. Stanton, Cooke.
Courses of Study—Drs. Briggs, Brackett, Stanton.
Museum—Drs. Fillebrown, Stanton, Cooke.

STUDENTS FOR 1896-97.

THIRD YEAR.

NAME.	RESIDENCE.	PRESENT ADDRESS.*
Barnard, Frank Pliny,	<i>Oxford,</i>	4 Burroughs Pl.
Belden, Roy Keney,	<i>Oakland, Cal.</i>	21 Chestnut St.
Belyea, Harry Ernest,	<i>Cambridge, N. B.</i>	1A Harvard St., Brookline.
Berry, Charles William,	<i>Brighton,</i>	Aetna and Almira Sts., Brighton.
Blake, Ralph Vincent,	<i>Waltham,</i>	19 Crescent St., Waltham.
Carson, Henry Ostrom, D.D.S., (<i>Graduate Student</i>),	<i>Canandaigua, N. Y.</i>	23 Pinckney St.
Coxeter, John Sibley,	<i>Newtonville,</i>	Newtonville.
Davis, Harold Edgeworth,	<i>San Francisco, Cal.</i>	61 Brattle St., Cambridge.
Davis, Robert Irving,	<i>Chelsea,</i>	3 Sturgis St., Chelsea.
Davis, Walter Sheldon,	<i>Worcester,</i>	Braintree.
Dickinson, John Dana,	<i>Watertown,</i>	Watertown.
Estey, Harold Watson,	<i>Roslindale,</i>	Roslindale.
Faunce, Walter Joseph,	<i>Jamaica Plain,</i>	42 Spring Park Ave., Jamaica Plain.
Forrest, George Lincoln,	<i>Holbrook,</i>	411 Columbus Ave.
Gordon, Charles Sumner,	<i>Worcester,</i>	35 St. Botolph St.
Green, Leo, A.B. (<i>College of the City of New York</i>),	<i>New York.</i>	10 Greenville St., Roxbury.
Greenwood, George True,	<i>Fitchbury,</i>	781 Tremont St.
Harding, Francis Herbert,	<i>No. Cambridge,</i>	15 Allen St., No. Cambridge.
Henry, Edward Everett,	<i>Wellesley Hills,</i>	Wellesley Hills.
Horne, Robert Gilkey,	<i>Watertown,</i>	Watertown.
Kenney, Arland Martin,	<i>Dorchester,</i>	161 Glenway St., Dorchester.
Kent, Edwin Allen,	<i>W. Medway,</i>	36 W. Cedar St., W. Medway.
Lakin, Charles Ansel,	<i>Worcester,</i>	29 Hollis St., Cambridge.
Lee, Thomas Jefferson,	<i>Brighton,</i>	10 Parsons St., Brighton.
Lunan, William, Jr.	<i>Andover,</i>	47 Concord Sq.
McDonough, Raimond Edgar,	<i>Bath, Me.</i>	85 Myrtle St.
McMahon, Thomas Richard,	<i>Charlestown,</i>	51 Allston St., Charles-
Mooney, Joseph Thomas,	<i>Boston,</i>	11 James St. [town.
Parkhurst, Charles Erwin, A.B. (<i>Boston Univ.</i>),	<i>Somerville,</i>	79 Walnut St., Somerville.
Reuterswärd, Oscar Per Herman,	<i>Sweden,</i>	419 Mass. Ave.
Schuckmann, Frederick Augustus Leopold, <i>Herford Westphalia, Germany,</i>		696 Tremont St.

* Addresses are in Boston, unless stated to be elsewhere.

Spencer, Harry Carlton,	<i>Chelsea,</i>	35 Marlboro St., <i>Chelsea.</i>
Stromier, Joseph Herman (L.D.S., D.D.S.),	<i>Glasgow, Scotland,</i>	36 W. Cedar St.
Thomas, David Pickard,	<i>Brighton, Eng.</i>	21 Chestnut St.
Vaughan, Clarence Bartlett,	<i>Boston,</i>	The Ilkley, <i>Huntington</i>
Veo, Frank Hosea,	<i>Newtonville,</i>	<i>Newtonville.</i> [Ave.
Warren, George Alfred,	<i>Newton Highlands,</i>	<i>Newton Highlands.</i>
White, Walter Harris,	<i>Malden,</i>	11 Perkins Ave., <i>Mallen.</i>
Williams, Ernest Blake,	<i>Malden,</i>	11 Perkins Ave., <i>Malden.</i>
Woodman, Herbert Clarence,	<i>Roxbury,</i>	20 Copley St., <i>Roxbury.</i>

SECOND YEAR.

Allen, Harry Roscoe,	<i>S. Willington, Conn.</i>	694 Tremont St.
Baker, Lawrence Wills,	<i>W. Roxbury,</i>	Bellevue St., <i>W. Roxbury.</i>
Brown, Clifton Gustavus,	<i>Stoughton,</i>	<i>Stoughton.</i>
Burnham, Charles Boardman,	<i>Beverly,</i>	19 Essex St., <i>Beverly.</i>
Crowther, Frank,	<i>Roxbury,</i>	232 Dudley St., <i>Roxbury.</i>
Currier, Horace,	<i>Cambridge,</i>	21 Sacramento St., <i>Cambridge.</i>
Daley, Joseph,	<i>Boston,</i>	6 W. Newton St.
Dickinson, Eliot Taylor,	<i>Amherst,</i>	3 Concord Sq.
Dowling, Giles,	<i>Allston,</i>	Ridgemont St., <i>Allston.</i>
Duckworth, Paul Hill,	<i>Lowell,</i>	82 Princeton St., <i>Lowell.</i>
Elwell, Guy Jerome,	<i>Gloucester,</i>	37 Mt. Vernon St., <i>Gloucester.</i>
Fallon, William Edward,	<i>Charlestown,</i>	37 Winthrop St., <i>Charlestown.</i>
Fisher, Stewart Chestland,	<i>Denison, Tex.</i>	102 Dorchester St.
Fitzgerald, James Joseph,	<i>Roxbury,</i>	3 Dayton Ave., <i>Rox-</i>
Fitzgerald, Terence Richard,	<i>Dorchester,</i>	<i>Dorchester.</i> [bury.
Garfield, Roy Mason,	<i>Worcester,</i>	274 Lincoln St.
Gaymond, George Osbourne,	<i>Dedham,</i>	<i>Dedham.</i>
Grant, Harry Linwood,	<i>Providence, R. I.</i>	Trinity Court.
Hanrahan, Timothy,	<i>Boston,</i>	3 Concord Sq.
Hart, Ernest Jewett,	<i>Chelsea,</i>	238 Washington Ave., <i>Chelsea.</i>
Hindes, J. Churchill,	<i>Vergennes, Vt.</i>	156 Warren Ave.
Howe, Horace Leonard,	<i>E. Pepperell,</i>	694 Tremont St.
Hutchins, Harvey David,	<i>Dorchester,</i>	51 Bloomfield St., <i>Dorchester.</i>
Jenkins, Loyal Lovejoy,	<i>E. Boston,</i>	110 Trenton St., <i>E. Boston.</i>
Leonard, Almon Evans,	<i>Glover, Vt.</i>	224 W. Canton St.
Lynde, Frank Martin,	<i>Williamstown, Vt.</i>	3 Concord Sq.
McKenna, Charles Henry,	<i>Boston,</i>	135 Lauriat Ave., <i>Dorchester.</i>
Marston, Elmer Joseph,	<i>Farmington, Me.</i>	110 Dartmouth St.
Mongeon, Louis Frederic,	<i>Blackstone,</i>	73 Rutland St.
Murphy, Charles Edward,	<i>Haverhill,</i>	<i>Tapleville.</i>
Owens, Thomas Bartholomew,	<i>Boston,</i>	146 Camden St.

Parker, William Morse,	<i>Jamaica Plain,</i>	212 Boylston St., Jamaica Plain.
Phillips, William Eben,	<i>Melrose,</i>	37 Everett St., Melrose.
Ray, Frederick Nash,	<i>Bradford,</i>	Bradford.
Richan, James Avar,	<i>East Boston,</i>	34 Saratoga St., E. Boston.
Rogers, William Joseph,	<i>Jamaica Plain,</i>	6 Robinwood Ave., Jamaica Plain.
Sears, Frank Bowker,	<i>Boston,</i>	133 Appleton St.
Squarebrigs, William Daniel,	<i>Bay Fortune, P.E.I.</i>	224 W. Canton St.
Starratt, Wilfred Harlow,	<i>Forest Hills,</i>	97 Hyde Park Ave.
Timlin, John Talbot,	<i>Melrose,</i>	26 Poplar St., Melrose.
Tuck, Albert Everett,	<i>Gloucester,</i>	5 Linwood Pl., Cambridgeport.

FIRST YEAR.

Albertson, Frank,	<i>Worcester,</i>	327 Columbus Ave.
Barrell, George Emerson,	<i>York Corner, Me.</i>	1 Divinity Hall, Cambridge.
Barker, Percy Lewis,	<i>Portland, Me.</i>	155 Aspinwall Ave., Brookline.
Boyce, Harold Nickerson,	<i>Lynnfield Center,</i>	Lynnfield Center.
Bristol, Burt Myron,	<i>Vergennes, Vt.</i>	361 Columbus Ave.
Brown, Daniel Crawford,	<i>Boston,</i>	82 Emerald St.
Carle, Ernest Earl,	<i>Malden,</i>	18 Barstow St., Malden.
Cobb, Charles Davis,	<i>East Boston,</i>	22 Beach St., No. Cambridge.
Currie, Frank Thomas,	<i>Cambridge,</i>	376 Harvard St., Cambridge.
Davis, Joseph Walter,	<i>Worcester,</i>	4 Oxford Terrace.
Dawes, Franklin Everett,	<i>Boston,</i>	130 Chandler St.
Donovan, John Matthew,	<i>Dorchester,</i>	32 Auckland St., Dorchester.
Esgate, Thomas Dorsey,	<i>So. Tamworth, N. H.</i>	203 Harvard St., Cam-
Federlin, Emil Julius,	<i>Boston,</i>	349 Columbus Ave. [bridge.
Fillebrown, Winthrop,	<i>Boston,</i>	Strathmore Road, Brookline.
Freeman, Richard Morris,	<i>Boston,</i>	158½ Chambers St.
Hallet, Everett Kendall,	<i>Boston,</i>	11 Mayfair St.
Hammett, George Brownell,	<i>Taunton,</i>	114 Broadway, Taunton.
Harrington, Ernest Stone,	<i>Providence, R. I.</i>	151 Worcester St.
Hatch, John Knight,	<i>Greenland, N. H.</i>	22 Greenwich Pk.
Haub, Herman Robert,	<i>Boston,</i>	102 Huntington Ave.
Heinrich, Oscar John,	<i>Rockford, Ill.</i>	149A Tremont St.
Hersey, George Murray,	<i>Hingham,</i>	South St., Hingham.
Hovestadt, Julius Frank,	<i>Boston,</i>	2 Park Sq.
King, Elbridge Decosmos,	<i>West Somerville,</i>	29 Raymond Ave., W. Som-
Kyes, Karl Sumner,	<i>Peterboro, N. H.</i>	Ipswich. [erville.
Leighton, Carlton Butler,	<i>Portland, Me.</i>	40 Oxford Terrace.
Libby, Arthur Allen,	<i>Boston,</i>	687 Boylston St.
Marston, Henry Herbert,	<i>No. Andover,</i>	No. Andover.
McHale, Thomas Francis,	<i>Providence, R. I.</i>	12 Foster St., Provi-
Miller, Archibald, Jr.,	<i>Hartford, Ct.</i>	86 Myrtle St. [dence.

Mudge, Cushing,	Cambridge,	Hotel Inman, Cambridge.
Nesbett, Norman Beverly,	Boston,	78 Chandler St.
Parshley, Burt Wilbur,	Dorchester,	17 Cushing Ave., Dorchester.
Patch, Charles Warren,	Gloucester,	10 Exchange St., Gloucester.
Pemberton, James Henry,	Fall River,	200 Columbus Ave.
Pierce, Frank Derby,	Boston,	Center St., Roxbury.
Power, James Edward,	Providence, R. I.	137 Academy Ave., Providence,
Reed, Herbert Arthur,	No. Attleboro,	45 Concord Sq. [R.I.
Richmond, George Danforth,	West Medford,	13 Bowers St.
Roberts, Jasne Gray,	Boston,	251 Columbus Ave.
Robinson, Charles Bradford,	Concord,	15 Upton St.
Rogers, Arthur Verne,	Brewer, Me.	34 Mt. Vernon St., Win-
Ross, Charles Gilbert,	Linden,	Linden. [chester.
Rowe, Willard Marmes,	Boston,	Hotel Rexford, Bowdoin St.
Thompson, Edwin Silas,	Boston,	135 Myrtle St.
Wentworth, Evan Parker,	So. Boston,	10 Gates St., So. Boston.
White, Edward Patrick,	Cambridge,	20 Austin St., Cambridge.
Wise, Arthur Mason,	So. Boston,	771 Broadway, So. Boston.
Young, Frank Arthur,	West Medford,	West Medford.

SUMMARY.

GRADUATE STUDENT.	1
THIRD YEAR STUDENTS	39
SECOND YEAR STUDENTS	41
FIRST YEAR STUDENTS	50
TOTAL	131

THE DENTAL SCHOOL.

The Dental School of Harvard University is established in Boston.

The academic year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June. There is a recess beginning December 23, and ending January 2; and a spring recess of one week beginning on the Sunday next preceding the 19th of April, or on Sunday the 19th of April when that day falls on Sunday, and ending on the following Saturday, both days inclusive.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The course of instruction is progressive, and extends over three years, the teaching of one year not being repeated in the next.

The studies of the first year are pursued in connection with the classes in the Harvard Medical School, the student receiving instruction by the same professors at the same time and place with the medical students, and at the end of the year passing with them the examinations.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided, and such arrangements made as insure an ample supply of patients. Clinical instruction is given by the professors and other instructors; and, under the direction of demonstrators, patients are assigned to the students, insuring to all opportunity of operating at the chair, and becoming by actual practice familiar with all the operations demanded of the dentist.

The Infirmary remains open, and one of the clinical instructors and a demonstrator are in attendance, daily, throughout the academic year, offering to students unsurpassed facilities for acquiring practical knowledge and manipulative dexterity.

Students have access to the hospitals of the city; to the dissecting-room and museum of the Medical School; and also, *without additional charge, to the instruction and examinations given in any other department of the University, with the exception of exercises carried on in the special laboratories.*

REQUIREMENTS FOR ADMISSION.

All candidates for admission, except those who have passed an examination for admission to Harvard College or any reputable college of Letters, or the Lawrence Scientific School, must present a degree in Letters, Science, or Medicine, from a recognized college or scientific school, or pass an examination in the following subjects:

1. **ENGLISH.** Every candidate will be required to write, legibly and correctly, an English composition of not less than two hundred words, and also to write English prose from dictation.

2. **PHYSICS.** A competent knowledge of Physics such as may be obtained from Gage, *Elements of Physics*, or any other High School Physics.

3. **LATIN OR FRENCH.** The translation at sight of simple Latin and French prose.

ELECTIVE SUBJECTS. Each candidate for admission must also pass an examination in *one* of the following subjects: German, the Elements of Algebra, or Plane Geometry, Botany or Chemistry.

Students may be admitted to advanced standing upon passing a satisfactory examination in a *majority* of the studies already pursued by the class, but before taking the degree examinations in *all* the studies must have been satisfactorily passed.

Graduates of recognized Dental Schools will be admitted without examination to the courses of Operative and Mechanical Dentistry, but attendance on such courses does not entitle to examination for the degree nor to a certificate of attendance.

The examinations for admission are conducted in writing. In judging the work of the candidate, the spelling, grammar and construction are considered.

The examination for admission is held at the Dental School, North Grove St., Boston, on the Tuesday before the last Wednesday in June and on the Monday preceding the last Wednesday in September, beginning at 9 A.M.

No person will be examined for admission at any other than the regularly appointed time.

The entrance and first-year examinations will be allowed to foreign students who have passed *equivalent* examinations abroad, upon presentation of proper certificates from the examining boards vouching for the facts.

All persons intending to take the entrance examination must send their names to the Dean for registry at least two weeks previous to the day on which the examination is to take place.

REGISTRATION.

The academic year 1897-98 begins on Thursday, September 30, 1897. All students register at the School on North Grove St., on that day at 9 A.M.

COURSE OF INSTRUCTION.

The following are the methods of study adopted in the various departments :—

For the First Year. — Anatomy-dissection, Physiology, Histology and Embryology; General Chemistry, Hygiene, Medical Chemistry, and Bacteriology.

For the Second Year. — Oral Pathology, Operative Dentistry, Mechanical Dentistry, and Othodontia; General and Dental Materia Medica and Therapeutics; Oral Anatomy and Physiology; Crown and Bridge Work, and Metallurgy; practical work daily in the mechanical laboratory and in the operative infirmary.

For the Third Year. — Operative Dentistry, Mechanical Dentistry, and Orthodontia, Neurology, Surgical Pathology and Surgery, Crown and Bridge Work, and Metallurgy, practical work in the operative infirmary and mechanical laboratory.

INSTRUCTION FOR 1897-98.

Anatomy.

Descriptive Anatomy. *Four times a week, till Christmas. Three times a week in January.* Professor DWIGHT. *Twice a week, till April.* Assistant Professor DEXTER. Recitations. *Once a week.* Dr. TENNEY.

Practical Anatomy, with exercises in Dissection. *Eight hours daily, from October 15 till May.* Demonstrations. Drs. BROOKS, TENNEY, LUND, J. B. BLAKE, LOTHROP, and WARREN.

Physiology.

Systematic and Experimental Physiology. *Four times a week, during first half-year. Six times a week, during second half-year.* Professors BOWDITCH and W. T. PORTER.

Laboratory exercises in Experimental Physiology. *Three times a week, in sections.* Asst. Professor PORTER and Mr. LOCKE.

Chemistry.

General Chemistry. *Twice a week, during first half-year. Twice a week, during second half-year.* Professor HILLS and Mr. BACON.

Practical exercises in the laboratory. *Twice a week during first half-year. Twice a week during second half-year.*

Histology and Embryology.

Lectures. *Twice a week, during the first half-year.* Professor MINOT.

Laboratory exercises. *Twice a week, during the first and second half-year.* Professor MINOT and Drs. QUINCY, SCHAPER, AMES, and DeLUE.

Bacteriology.

Eighteen lectures, in second half-year. PROFESSOR ERNST.

Practical laboratory work. *Eighteen hours for each student, during the second half-year.* PROFESSOR ERNST.

Operative Dentistry.

Lectures. *Once a week.* PROFESSOR FILLEBROWN and DR. POTTER.

Clinical lectures. *Once a week, for ten weeks.* DR. CLAPP.

Practical work. *First year: six hours a week, for half-year; second and third years: fifteen hours a week, throughout the second and third years.*

Mechanical Dentistry and Orthodontia.

Lectures. *Once a week.* PROFESSOR SMITH.

Practical work. *Eighteen hours a week, throughout the second and third year.*

Surgery.

Lectures. *Once a week, for one month.* PROFESSOR WARREN.

Operative Surgery.

Operations are performed before the students one day each week throughout the year in the Amphitheatres at the Massachusetts General Hospital and Boston City Hospital.

Operative Surgery and Surgical Anatomy. *Exercises illustrated upon the cadaver twice a week in March and April.* PROFESSOR C. B. PORTER.

The Surgical cases at the Eye and Ear Infirmary and at the Boston Dispensary are shown by the surgeons in charge.

Dental Pathology.

Lectures. *Once a week.* PROFESSOR BRACKETT

Oral Anatomy and Physiology.

Lectures and demonstrations. *Once a week.* ASST. PROFESSOR STANTON.

Surgical Pathology.

Lectures. *Once a week, for ten weeks.* DR. MONKS.

Materia Medica.

Lectures. *Once a week.* PROFESSOR E. C. BRIGGS.

Neurology.

Lectures. *Once a week, for four weeks.* DR. WALTON.

Crown and Bridge Work and Metallurgy.

Lectures and demonstrations. *Once a week.* DR. COOKE.

METHODS OF INSTRUCTION.

Anatomy. — Lectures, demonstrations, various practical exercises, including dissection under the direction of the Demonstrator; recitations.

Physiology. — Lectures, recitations, conferences, and practical demonstrations. Opportunities for work in the physiological laboratory of the Medical School are offered to students who are qualified to carry on original investigations.

Chemistry is taught mainly by practical work in the laboratory, each student having his own desk and apparatus. Descriptive Chemistry and Qualitative Analysis are taught throughout the year. Besides the laboratory work, there are two lectures every week.

Surgery. — Lectures and recitations in Oral Surgery illustrated by colored drawings and by recent and morbid specimens. All approved instruments and apparatus are exhibited and explained. Operations are performed on the living subject at the hospitals, and upon the dead body. Instruction is given in the use of anaesthetics.

Instruction in Clinical Surgery is given at the Massachusetts General Hospital and City Hospital every week.

Histology and Embryology. — Lectures and special laboratory exercises for practical instruction in General Histology, and upon the structure and development of the teeth and mouth.

Bacteriology. — Lectures and practical work in the laboratory.

Operative Dentistry. — The instruction in this department is both didactic and practical. The Professor and other instructors endeavor to demonstrate all known methods of performing operations upon the teeth and other tissues involved.

The treatment of decay, the materials used for filling teeth, the most approved instruments and appliances used in operating upon the teeth, are appropriately discussed. Clinics are held at the Infirmary, and every available means used to make the student practically acquainted with all the modern improvements of this important branch of dental science; but no student will be permitted to operate at the chair until he has by observation and practice on extracted teeth satisfied the Professor of his fitness.

Oral Anatomy and Physiology. — Lectures and recitations upon the minute anatomy of the teeth and their histological development, and the surgical pathology of the tissues in and about the mouth. Material is furnished for the examination of the tissues in a healthy and diseased condition, with instruction in its preparation.

Dental Pathology.—In the beginning of the course of lectures the general principles of Pathology, including Etiology, Nosology, Semeiology, Diagnosis, and Prognosis, are outlined. The various pathological conditions in their relations to one another and their modifications of structure and function are taught. This prepares the way for the special pathology of the region with which the dentist has most to do. The diseases of the dental and contiguous tissues are considered in detail, with reference to their nature, causes, manifestations and terminations, and their relations with systemic conditions.

Surgical Pathology.—Lectures and recitations embracing the subjects of shock, inflammation, repair, suppuration, ulceration, mortification, embolism, pyaemia, erysipelas, and tetanus.

Materia Medica and Therapeutics.—Lectures, recitations, and demonstrations of crude drugs and their preparations. This is a complete course, as taught in the Medical School to medical students. Remedies are classified, however, to meet the special requirements of the dental practitioner, and the student is particularly instructed upon those remedies which, as a specialist, he will be called upon most to use.

Mechanical Dentistry and Orthodontia.—Lectures and practical work in the laboratory; the manner in which mineral teeth are constructed, the principles and method of carving and furnace-work, and all compounds used for artificial teeth; and the manner in which gold and silver plates are prepared and adapted to the mouth; the use of rubber and other articles as bases. It is the aim to teach not only the mere mechanical processes of Dentistry, but that combination of art with mechanism which enables the practitioner to effect so much in restoring the symmetry of the face and usefulness of the teeth, where they have been lost or impaired by accident or disease.

Orthodontia is taught by lectures and by practical work in the Infirmary. Models of cases are shown, and students are made familiar with the principles underlying the irregularities and the various appliances for their correction.

Crown and Bridge Work and Metallurgy.—Lectures and specimen work in the laboratory followed by practical work in the Infirmary.

Neurology.—A course of four lectures on Neurology will include a brief review of the anatomy and physiology of the nervous system, the anatomy of the trifacial nerve being made the subject of special study.

The nervous disturbances liable to be set up by dental irritation, and, conversely, those likely to produce odontalgia, will be considered as fully as the limited nature of the course permits, special attention being paid to trifacial neuralgia.

Clinical Lectures on Operative Dentistry. — These exercises include operations on patients, demonstrations and exhibition of models, showing the individual methods of the lecturers with descriptions and explanations.

TEXT-BOOKS.

The following works are recommended as text-books, and for collateral reading and consultation : —

Anatomy.

Text-Books. — Gray (13th edition). Morris. Quain (10th edition). Wilson, *Holden's Landmarks*. Dwight, *Frozen Sections of a Child*. Treves, *Applied Anatomy*. Dexter, *Anatomy of Peritoneum*.

Collateral Reading. — Harrison Allen, *Anatomy*. Testut, *Anatomie Humain*. Tillaux, *Anatomie Topographique*. Holden, *Osteology*. Humphry, *Human Skeleton*. Morris, *On the Joints*. Weisse, *Practical Human Anatomy*. McClellan, *Regional Anatomy*.

Histology and Embryology.

Text-Books. — Stöhr, *Manual of Histology*. Pierrol, *Histology*, or Schaefer, *Essentials of Histologie*.

Collateral Reading. — Quain, *Anatomy* (10th edition). Lee, *Microscopist's Vade-mecum*. Schiefferdecker and Kossel, *Gewebelehre*. Minot, *Human Embryology*. Marshall, *Vertebrate Embryology*.

Physiology.

Text-Books. — Foster, *Text-book of Physiology*. *American Text-book of Physiology*. Waller, *Human Physiology*.

Collateral Reading. — Fick, *Compendium der Physiologie*. Halliburton, *Text-book of Chemical Physiology and Pathology*. McGregor-Robertson, *Elements of Physiological Physics*. Landois, *Manual of Human Physiology*. Stirling, *Practical Physiology*. Gamgee, *Physiological Chemistry of the Animal Body*.

General Chemistry.

Text-Books. — Simon, *Manual of Chemistry*.

Collateral Reading. — Miller, Roscoe and Shorlemmer, or Fownes, *Chemistry*. Douglass and Prescott, or Fresenius, *Qualitative Analysis*.

Dental Chemistry.

Text-Book. — Mitchell, *Dental Chemistry*.

Surgery.

Text-Books. — *An American Text-Book of Surgery*. Warren, *Surgical Pathology*. Garretson, *Oral Surgery*.

Materia Medica and Therapeutics.

Text-Books. — Edes, *Materia Medica and Therapeutics*. Potter, *Materia Medica*. Bartholow, *Hypodermatic Medication*.

Dental Pathology.

Text-Books. — Blodgett, *Dental Pathology*. DeBary, *Lectures on Bacteria*. Miller, *Micro-organisms of the Human Mouth*.

Surgical Pathology.

Text-Book. — Billroth, *Surgical Pathology*.

Oral Anatomy and Physiology.

Text-Books. — Black, *Dental Anatomy*. Tomes, *Dental Surgery*.

Orthodontia.

Text-Books. — Farrar, *Irregularities of the Teeth*. Talbot, *Irregularities*. Guilford, *Orthodontia*.

Operative Dentistry.

Text-Books. — Fillebrown, *Operative Dentistry*. Taft, *Operative Dentistry*. *American System of Dentistry*.

Mechanical Dentistry.

Text-Books. — Richardson, *Mechanical Dentistry*. Kingsley, *Oral Deformities*. Harris, *Principles and Practice*.

Crown and Bridge Work and Metallurgy.

Text-Books. — Evans, *Crown and Bridge Work*. *American System of Dentistry*.

Anaesthesia.

Text-Books. — Anstie, *Stimulants and Narcotics*. Turnbull, *Artificial Anaesthesia*.

CLINICAL ADVANTAGES.

The Dental School is established in Boston, in order to secure those advantages for Clinical Instruction which are found only in large cities.

The clinics of the Dental Hospital afford a sufficient number of patients to give every student abundant practice in all branches of Dentistry throughout the year.

Each student is assigned a chair, and is expected to improve his opportunity and operate three hours every day, five days in the week, giving each student during each year 480 hours of practice in Operative Dentistry.

In the mechanical department the student gives three hours a day for six days each week, giving 576 hours' practice each year.

Dental Statistics. — For the year 1895-96 :

Operative department : —

No. of patients treated	10,487
“ “ Operations	9,113
“ “ Fillings — Gold	2,390
“ “ “ Amalgam	1,510
“ “ “ Cement	1,611
“ “ “ Gutta Percha	1,047

Other Surgical cases : —

Necrosis	2
Ulceration of Soft Palate (Syphilitic)	1
Hare Lip	1

Mechanical department : —

No. of specimen sets of artificial teeth	95
“ “ sets of artificial teeth	349
“ “ “ “ “ repaired	51
“ “ splints for fractured jaws	10
“ “ “ “ cleft palate operations	1
“ “ obturators for cleft palates	6
“ “ cleft palate appliances	2
“ “ artificial noses	3
“ “ specimen splints for fractured jaws	9

Orthodontia : —

No. of sets of teeth regulated	71
“ “ appliances	106

Crown and Bridge Work : —

No. of Crowns and Caps	79
“ “ pieces of Bridge Work	11
“ “ Specimen Crowns and Bridges	383

The Museum contains over 3000 specimens, and offers unusual facilities for study of the teeth. The pathological anatomy of the teeth is shown by more than 1600 specimens, among which are over 200 dissected teeth showing formations of secondary dentine in the pulp cavity, and also many other rare specimens of great value.

There are 600 other specimens of human and comparative anatomy, illustrating a wide range of knowledge.

The Massachusetts General Hospital. — During the past year, 3749 patients were treated in the wards, and 29,146 new patients in the out-patient departments. Total out-patient attendance, 86,533. Patients are

received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, on four days in the week. Operations are numerous, and are performed in the amphitheatre, which is provided with seats for 400 persons. Clinics in the following special branches have been established in connection with the out-patient department: Dermatology, Laryngology, Diseases of the Nervous System, and Ophthalmology.

The City Hospital.—During the past year, 8599 cases were treated in its wards, and 18,073 in its various out-patient departments. The medical wards always contain many cases of acute diseases, and changes are taking place constantly. The opportunities for seeing fractures, injuries, and traumatic cases of all kinds are excellent, since, on an average, 1000 street accidents are yearly treated. Surgical operations are performed in the amphitheatre. Diseases of the eye, the ear, and the skin are largely treated in the out-patient department. Clinical instruction is given by the physicians and surgeons twice a week.

In these two hospitals, the facilities for witnessing Operative Surgery are unsurpassed. Twice a week operations are performed in the presence of the class. The number of these operations is large, reaching nearly 2000 a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

The Boston Dispensary.—42,116 patients were treated at this public charity during the past year. A new building has lately been erected at a cost of \$50,000, where students have ample and excellent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of Medicine and Surgery.

The Massachusetts Charitable Eye and Ear Infirmary.—The 14,000 patients annually treated at this institution present every variety of disease of the ear and eye, and supply a large number of operations.

The Marine Hospital at Chelsea receives from the shipping of the port a large number of patients, who furnish examples of the diseases of foreign countries and of distant parts of the United States. Many cases of venereal disease, in its various forms, are treated annually.

LIBRARIES.

The College Library at Cambridge is open to students and also the Library of the Boston Medical Library Association which has a dental section containing a large and very complete collection of dental literature. It includes the libraries of the Harvard Dental School, the American Academy of Dental Science, and the Massachusetts Dental Society.

The Boston Public Library is open to students who are inhabitants of Boston. Students who are not inhabitants of Boston, who have filed bonds at the Treasurer's office, or deposited with the Treasurer the sum of fifty dollars, may also use this Library.

EXAMINATIONS.

The regular examinations, conducted in writing and orally, are held at the end of each year in June and in September in the following order, viz:—

First Year.—Anatomy, including dissection (2 hrs.), Physiology (3 hrs.), Chemistry (3 hrs.), Histology (1 hr.), Bacteriology (1 hr.). A certificate from the Demonstrator of Anatomy will be required of each student that he has satisfactorily performed the required dissections.

Second Year.—Dental Pathology (2 hrs.), Materia Medica and Therapeutics (2 hrs.), Oral Anatomy and Physiology (3 hrs.).

Third Year.—Operative Dentistry (2 hrs.), Surgical Pathology and Surgery (3 hrs.), Mechanical Dentistry (2 hrs.), Orthodontia (2 hrs.), Crown and Bridge Work (2 hrs.). These examinations will include actual operations performed during the course, and the preparation of specimens of mechanical dentistry.

Students shall not be entitled to enter the third-year class in practical Operative and Mechanical Dentistry, until they have shown reasonable proficiency in the work of the second year.

Applicants for advanced standing must pass all the examinations of the years which they desire to omit, or furnish proof that they have passed equivalent examinations. Examinations for advanced standing are held in September only.

No student will be allowed to anticipate the examinations in the regular course of studies of his year, except by special permission of the Faculty.

Those who fail in any subject may present themselves in that subject again at the next regular examination. The regular examinations for the year 1896-97 will begin June 1 and September 27, 1897.

DIVISION OF STUDENTS.

Students are divided into three classes according to their lines of study and proficiency, and during their last year will receive largely increased opportunities of clinical instruction and practice in the practical work of operations on the natural teeth and mouth.

In order that the time of study shall count as a full year, students of all classes must present themselves within the first month of the academic year and register their names with the Dean.

REQUIREMENTS FOR THE DEGREE.

The degree of Doctor of Dental Medicine (*Dentariæ Medicinæ Doctor*) may be conferred upon any candidate of adult age, and of good moral character, who has passed *all the required examinations*, and convinced the Professors and Instructors of Operative and Mechanical Dentistry of his ability to meet satisfactorily the requirements of his art. He must also give evidence of having studied Medicine or Dentistry in some recognized school three full years, the last continuous year of which must have been spent at this School.

He must also deposit with the Dean, to be placed in the Museum of the School, a specimen of mechanical dentistry, or of practical or pathological anatomy, prepared during the course under the eye of the instructor.

No student may advance with his class until he has passed a satisfactory examination in a majority of the studies already pursued by his class.

The course is a graded one of three continuous years. *Graduates* from other reputable Dental Schools will be permitted to enter the Senior class after passing the required examinations, or without examination, by special vote of the Faculty.

INSTRUMENTS.

With the exception of extracting instruments, lathes, and vulcanizers, each student will be required to furnish his own instruments, and appliances for both laboratory and operating room.

FEE\$ AND EXPENSES.

There are no fees for matriculation, for the diploma, or for the demonstrators. For the first year a student is a member of the School, the fee is \$200, in two payments of \$120 and \$80, at the beginning of each term; for the second year, \$150, in two payments of \$100 and \$50, payable at the beginning of each term; for the third year, \$150, in two payments of \$100 and \$50, payable at the beginning of each term, and for any subsequent year, \$50, payable at the beginning of the year.

During the first year there are the following additional expenses: Two dollars for each of the three parts required for dissection; and five dollars per year for chemical material, in addition to the charge for breakage of glass apparatus. A deposit of fifteen dollars is required to cover these charges for chemical material and breakage. The balance of this deposit is returned at the end of the year.

Graduates of recognized Dental Schools will be admitted to the courses of Operative and Mechanical Dentistry for the whole or any portion of the academic year on payment of \$50 for each course. By attend-

ing these courses the student does not become a candidate for the degree nor is he entitled to a certificate of attendance.

Of students *who do not pay in advance*, a bond for \$300 executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond will be sent, on application to the Bursar* of the University. The bond of the "American Surety Company," if made in a form satisfactory to the Bursar of the University, will also be accepted. To students depositing these bonds, term-bills will be presented a week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such students will be held responsible for the payment of fees until they shall have notified the Dean of their intention to withdraw from the School, and have received their bond from the Bursar. *No degree can be conferred till all dues to the School are discharged.*

Whenever a student is obliged to withdraw from the School before the last four weeks of a half-year for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Faculty, it shall be recommended that he be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction — this remission to date from the reception by the Dean of a written notice of the student's withdrawal from the School.

The student's expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. The Janitor of the Medical School keeps a list of boarding-houses in which the charges are from five dollars per week upwards, according to accommodation furnished.

Students, on joining the School, and at the beginning of each School year, must enter their names with the Dean of the Faculty.

SUMMER COURSES.

Beginning July 6, 1897, and continuing four weeks courses in many branches of Practical and Scientific Dentistry will be given by some of the teachers of the School. These courses will be largely clinical in character and will be given at the Infirmary and Laboratory. A detailed list of the summer courses will be announced in March.

For further information address EUGENE H. SMITH, *Dean*, 283 Dartmouth St., Boston, Mass.

* The Bursar's office is in Wadsworth House, Harvard Square, Cambridge.

The following Tabular View illustrates the distribution of studies throughout the year

1896-97, FROM OCTOBER TO FEBRUARY 4.

First Class.—First Term.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C. till January.	†Anatomy, L. Asst. Prof. Dexter. Lect.-room C.	†Anatomy, L. Asst. Prof. Dexter. Lect.-rm. C.
10	Hygiene, L. Dr. Harrington.	Histology. L. Prof. Minot.		Histology, L. Prof. Minot.	Chemical Laboratory. N. Grove St. Mr. Bacon.	Physiology. Dem. Prof. Porter. Lect.-rm. A.
11	Physiology. L. Prof. Bowditch. Lect.-room A.	Chemical L. or R. Prof. Hills or Mr. Bacon. Lect.-room A.		Physiology. L. Prof. Bowditch, Lect.-room A.		Physiol., R. Prof. Bowditch. Lect.-rm. A.
11½						Chemical L. or R. Prof. Hills or Mr. Bacon. Lect.-rm. A.
12	Anatomy, R. Dr. Tenney. Lect.-room C.	Bacteriology, L. Prof. Ernst. Beginning Jan. 1.				*Laborat'y.
2	Histology, Lab. Dr. Schaper and Dr. Ames.	Dr. Taylor. Practical Dentistry. Dt'l Hosp., N. Grove St.	Chemical Laboratory. N. Grove St. Mr. Bacon.	Dr. Upham. Practical Dentistry. Dt'l Hosp., N. Grove St.	Histology, Lab. Dr. Schaper and Dr. Ames.	

* Anatomy, Bacteriology, Chemistry, and
Physiology.

† Till April.

L. Lecture.
R. Recitation.
C. Conference.
Dem. Demonstration.

The studies of the first year are pursued at the Medical School, corner Boylston and Exeter Streets.

The Laboratory work in Chemistry is pursued at the Dental School, North Grove Street.

Commencing in December:

The following tabular view illustrates the distribution of studies throughout the year

1896-97, FROM FEBRUARY 4 TO JUNE.

First Class. — Second Term.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9		Physiology, Conf. Prof. Bowditch, Lect.-room A.		Chemical L. or R. Prof. Hills or Mr. Bacon. Lect.-room A.	†Anatomy, L. Asst. Prof. Dexter. Lect.-room C.	†Anatomy, L. Asst. Prof. Dexter, Lect.-rm. C.
10	Bacteriology L. Prof. Ernst.					Physiology. Dem. Prof. Porter. Lect.-rm. A.
11	Physiology, L. Prof. Bowditch, Lect.-room A.				Physiology, L. Prof. Bowditch. Lect.-room A.	Physiol. R. Prof. Bowditch. Lect.-rm. A.
11½						Chemical L. or R. Prof. Hills or Mr. Bacon. Lect.-rm. A.
12	Anatomy, R. Dr. Tenney, Lect.-room C.	Physiology, L. Prof. Bowditch, Lect.-room A.		Physiology, L. Prof. Bowditch, Lect.-room A.		
2	Histology, Lab. Dr. Schaper and Dr. Ames.	Dr. Taylor. Practical Dentistry. Dt'l Hosp., N. Grove St.	Chemical Laboratory. N. Grove St. Mr. Bacon.	Dr. Upham. Practical Dentistry. Dt'l Hosp., N. Grove St.	Histology. Laboratory. Dr. Schaper and Dr. Ames.	

* Anatomy, Bacteriology, Chemistry, and
Physiology.
Till January.
† Till April.

L. Lecture.
R. Recitation.
C. Conference.
Dem. Demonstration.

Second Class.

DENTAL HOSPITAL, NORTH GROVE ST.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Crown and Bridge work and Metallurgy. Dr. Cook. Clin. Lect. or Dem. Lect.-room B.	Mat. Medica. and Thera., L. Prof. Briggs. Lect.-room B.	Op. Dent., L. Dr. Potter. Lect.-room B.	Op. Dent., L. Prof. Fillebrown. Lect.-room B.	Oral Anat. & Physiology, L. Asst. Prof. Stanton. Lect.-room B.	Mechan. Dentistry and Orthodontia. L. Prof. Smith. Lect.-rm. B.
10	Prac. Oper. Dentistry. Drs. Hardy and Farrington.	Prac. Oper. Dentistry. Drs. Hardy and Farrington.	Prac. Oper. Dentistry. Drs. Hardy and Farrington.	Dent. Path., L. Prof. Brackett. Lect.-room B.	Prac. Oper. Dentistry. Drs. Hardy and Farrington.	Prac. Mech. Dentistry. Lab.
11				Prac. Oper. Dentistry. Drs. Hardy and Farrington.		
	Dr. Dickinson. Asst. Dem.	Dr. Dickinson. Asst. Dem.	Dr. Dickinson. Asst. Dem.	Dr. Dickinson. Asst. Dem.	Dr. Dickinson. Asst. Dem.	Dr. Moriarty. Dem.
2	Pract. Mech. Dentistry. Dr. Chase.	Pract. Mech. Dentistry. Dr. Chase.	Pract. Mech. Dentistry. Dr. Chase.	Pract. Mech. Dentistry. Dr. Chase.	Pract. Mech. Dentistry. Dr. Chase.	
	Dr. McMeekin. Asst. Dem.	Dr. McMeekin. Asst. Dem.	Dr. McMeekin. Asst. Dem.	Dr. McMeekin. Asst. Dem.	Dr. McMeekin. Asst. Dem.	
	Dr. Wyllie. Asst. Dem. Extracting.	Dr. Wyllie. Asst. Dem. Extracting.	Dr. Wyllie. Asst. Dem. Extracting.	Dr. Wyllie. Asst. Dem. Extracting.	Dr. Wyllie. Asst. Dem. Extracting.	

Third Class.

DENTAL HOSPITAL, NORTH GROVE ST.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Crown and Bridge work and Metallurgy. Clin. Lect. or Dem. Dr. Cook. Lect.-room B.	Surg. Path. Dr. Monks. 10 lectures. com. Oct. 6. Lect.-rm. A. Dr. Clapp. 4 lectures com. Dec. 15. Lect.-rm. A.	Op. Dent., L. Dr. Potter. Lect.-room B.	Op. Dent., L. Prof. Fillebrown. Lect.-room B.	*Neurol'gy, L. Dr. Walton. 4 lectures com. Feb. 5. Lect.-room A. Prac. MeCHAN. Dentistry. Lab. Dr. Oldham. *Dr. Stoddard. Six Clinical Demonstrations com. March 5, '97.	Mechan. Dentistry and Orthodontia. L. Prof. Smith. Lect.-rm. B.
10	Prac. MeCHAN. Dentistry. Lab. Dr. Eldred.	Prac. MeCHAN. Dentistry. Lab. Dr. Burnham.	Prac. MeCHAN. Dentistry. Lab. Dr. Hayden.	Prac. MeCHAN. Dentistry. Lab. Dr. Bixby.		Prac. MeCHAN. Dentistry. Lab.
to						
1	Dr. Moriarty. Dem. Dr. Haley. Asst. Dem.	Dr. Moriarty. Dem. Dr. Haley. Asst. Dem.	Dr. Moriarty. Dem. Dr. Haley. Asst. Dem.	Dr. Moriarty. Dem. Dr. Haley. Asst. Dem.	Dr. Moriarty. Dem. Dr. Haley. Asst. Dem.	Dr. Moriarty. Dem. Dr. Haley. Asst. Dem.
2	Pract. Op. Dentistry. Dr. Blaisdell.	Pract. Op. Dentistry. Dr. Taft.	Pract. Op. Dentistry. Dr. Eddy.	Pract. Op. Dentistry. Dr. Bradley.	Pract. Op. Dentistry. Dr. Boardman.	
4	Dr. Paul. Dem.	Dr. Paul. Dem.	Dr. Paul. Dem.	†Surgery, L. Prof. Warren. Dr. Paul. Dem.	Dr. Paul. Dem.	
5	Dr. Wyllie. Asst. Dem. Extracting.	Dr. Wyllie. Asst. Dem. Extracting.	Dr. Wyllie. Asst. Dem. Extracting.	Dr. Wyllie. Asst. Dem. Extracting.	Dr. Wyllie. Asst. Dem. Extracting.	

* During second half-year.

† Medical School.

LIST OF GRADUATES

OF

THE DENTAL SCHOOL OF HARVARD UNIVERSITY.

1869.

Thomas Fillebrown, M.D. (<i>Medical School of Maine</i>),	Boston.
Robert Tanner Freeman,	*1873.
Thomas Haley,	*1892.
Edward Page, M.D. (<i>Harvard</i>),	Charlestown.
Samuel Julius Shaw,	Boston.
Joseph Jenkins Vincent,	Brockton.

1870.

John Thomas Codman,	Boston.
William Francis Davis,	Adams.
George Franklin Grant,	Boston.
Samuel Franklin Ham,	Portsmouth, N. H.
Daniel Grout Harrington,	Boston.
Thomas Wilson Hogue,	Bournemouth, England.
Timothy Otis Loveland,	Boston.
William Henry Noyes,	*1895.
George Luther Parmele, M.D. (<i>L. I. College Hospital</i>),	Hartford, Conn.
William Henry Thornton,	Providence, R. I.
Frank Edward Ward,	*1894.
Charles Wilson,	Boston.

1871.

Charles Monroe Bailey,	Minneapolis, Minn.
George Hayward Baker,	Woonsocket, R. I.
Charles Edwin Hussey,	Biddeford, Me.
Albert Benton Jewell,	Newton.
Phillip Benjamin Laskey,	Marblehead.
William Pitt Morgan,	Saginaw, Mich.

* Deceased.

1872.

George Henry Ames,	Providence, R. I.
Sidney Chapin Bancroft,	Leavenworth, Kan.
Charles Samuel Bartlett,	Boston.
James Dias Bell,	London, England.
Edwin Perley Bradbury,	Montecito, Cal.
James Adkins Clark, M.D. (<i>Dartmouth</i>),	*1875.
James William Curtis,	Brunswick, Me.
George William Geist,	Frankfurt am Main, Germany.
John Warner Keyes,	Boston.
George Edward Langdon Noyes,	Newburyport.
Frederic Miller Robinson,	Boston.
Samuel Saiza Silva,	Southbridge.
Benjamin Henry Torrens,	Fredericton, N. B.
Winslow Lewis Tucker, A.M. (<i>Harvard</i>),	Boston.
Cecil Porter Wilson,	Boston.

1873.

Charles Albert Brackett,	Newport, R. I.
Edward Augustus Dimmick,	Bridgetown, Barbadoes, W. I.
George Henry Knowles,	Central Falls, R. I.
William Herbert Rollins, M.D. (<i>Harvard</i>),	Boston.
Charles Herman Wolff,	Worms am Rhein, Germany.

1874.

Willis Porter Battles,	Providence, R. I.
Edward Dwight Carr,	Kansas City, Mo.
Edward Eastman Frost,	Worcester.
George Leonard Mason,	*1895.
Horatio Cook Meriam,	Salem.
Frederic Augustus Merrill,	Boston.
Eugene Hanes Smith,	Boston.
Franklin Baker Stewart,	*1877.

1875.

Forest Greenwood Eddy,	Providence, R. I.
John Willard Hazelton,	Peabody.
Joseph Traverse Morong,	*1876.
Wilbur Bates Parker,	Boston.
Eben Francis Whitman,	Boston.

1876.

Thomas Bradley,	New York, N. Y.
Oscar Berlin Brann,	Washington, D. C.
George Peters Caldwell, M.D. (<i>Harvard</i>)	St. John, N. B.
George Cunningham, B.L., B.S.C., B.A., M.A. CANTAB., L.D.S. (<i>Eng.</i>),	Cambridge, England.
Edgar Morton Jewett,	Portsmouth, N. H.
George Otis Lawrence,	San Francisco, Cal.
Jesse Robbins,	Salem.
Charles Claude Rogers, L.D.S. (<i>Eng.</i>), M.R.C.S. (<i>Eng.</i>),	London, England.
Ezra Fletcher Taft, A.B. (<i>Amherst</i>),	Cambridge.
Julius George William Werner,	Boston.

1877.

Allston Gray Bouvé,	Boston.
Henry Francis Dunkel,	Gunnison, Col.
Edward Bigelow Hitchcock, M.D. (<i>Dartmouth</i>),	Newton.
Washburn Edward Page,	Boston.
Frank Perrin,	Boston.
Lucius Tracy Sheffield,	New York, N. Y.
Richard Theodore Stack, A.B., M.D. (<i>Dublin Univ.</i>), CH.M., F.R.C.S.I., L.D.S. (<i>Eng.</i>),	Dublin, Ireland.
Frank Herbert Williams,	Boston.

1878.

Edward Cornelius Briggs, M.D. (<i>Harvard</i>),	Boston.
Joseph Mason Bright,	Bangor, Me.
Harry Fairfield Hamilton, B.S. (<i>Maine State Coll.</i>),	Boston.
Manning Kennard Rand,	Boston.
Daniel Frank Whitten,	*1891.
Herbert Chauncey Woodward,	Paris, France.

1879.

Frederic Eugene Banfield,	Boston.
Walter Bryant Currier,	Maynard, Mass.
Thomas Clarence Gillingham,	Sharon.
Edward Samuel Niles,	Boston.
John William Smith,	*1889.

1880.

Frederick Eugene Ayer,	San Francisco, Cal.
Albert James Colgan,	Wollaston.
Arthur Ernestine Lewis,	Plymouth.
John Scott Mason,	Boston.
Virgil Clarence Pond, B.P. (<i>Brown Univ.</i>),	Boston.

1881.

William Parker Cooke,	Boston.
George Alfred Dennett,	Boston.
James Alfred Reilly,	Boston.
Edmond Rosenthal,	Brussels, Belgium.
Otis Franklin Smith,	Boston.

1882.

Dwight Moses Clapp,	Boston.
George Eubank,	Birmingham, Ala.
Edward Earl Hopkins,	Boston.

1883.

Elliot Bowdoin Bacheller,	Lowell.
Edwin Carter Blaisdell,	Portsmouth, N. H.
Frederic William Hill,	Oxford, England.
Edward Albert Lowe,	Lowell.
Samuel Sterrett Macfarlane,	Frankfurt am Main, Germany.
Myron William Smith,	*1886.
Joseph Ellsworth Waitt,	Boston.
George Arthur Williams,	Liverpool, England.

1884.

Charles Lincoln Abbott,	Kansas City, Mo.
Frederic William Bevington,	Lawrence.
Henry Parsons Cooke,	Worcester.
Charles Percy Curtis,	Rome, Italy.
Arthur Crowell Gerry,	Lowell.
George Henry Gerry,	Providence, R. I.
Charles Franklin MacDonald,	Boston.
Edward Albert Stanley,	New Bedford.
Jere Edmund Stanton, M.D. (<i>Bellevue</i>),	Boston.
Alfred Horace Tester, L.D.S., R.C.S. (<i>Eng.</i>),	Tunbridge Wells, England.

1885.

Charles Henry Abbot,	Berlin, Germany.
Edward Merrill Currier, M.D. (<i>Heidelberg</i>),	
M.D. (<i>Boston Univ.</i>),	Boston.
Charles Eugene Estabrook,	So. Boston.
Thomas James Giblin,	So. Boston.
Henry Webster Gillett,	Newport, R. I.
Walter Harrison, L.D.S., R.C.S. (<i>Eng.</i>),	Brighton, England.
William Henry Potter, A.B. (<i>Harvard</i>),	Boston.
James Shepherd,	Boston.

1886.

Lyman Fisher Bigelow,	Boston.
Waldo Elias Boardman,	Boston.
William Thomas Borton,	St. Petersburg, Russia.
Frederick Bradley,	Newport, R. I.
Henry Michael Clifford,	Boston.
Isidor Fürst,	Hamburg, Germany.
Leonard Nutter Howe,	Boston.
Frederic Milton Mayo,	Boston.
Wilhelm Leopold Olander,	*1896.
Charles Hutchins Taft, A.B. (<i>Harvard</i>),	Boston.
Henry Lauriston Upham,	Boston.

1887.

Peter Crank, L.D.S. (<i>Eng.</i>),	Adelaide, So. Australia.
Carroll Ketcham Huntley,	Providence, R. I.
Leslie Maxwell, L.D.S., R.C.S.I.	Tunbridge Wells, England.
Edwin Leslie Shattuck,	London, England.
Frank Ellsworth Sprague,	Nashua, N. H.
Henry James Stark,	*1889.
Edgar Fremont Stevens,	Medford.
Arthur Henry Stoddard,	Boston.
Charles Henry Veo,	Boston.
John Daniel Wilson,	Boston.
Harry Eugene Windsor,	Providence, R. I.
Thomas Weston Wood, A.B., A.M. (<i>Brown Univ.</i>),	Boston.
Harvey Warner Woodberry,	Duluth, Minn.
Charles Frederick Wright, L.D.S., R.C.S. (<i>Eng.</i>),	London, England.

1888.

George Pierce Geist,	Frankfurt am Main, Germany.
Frederick Payne Graves,	Saco, Me.
Ellis Proctor Holmes,	Stoughton.
Henry Allen Kelley,	Portland, Me.
Thomas George Read, L.D.S., R.C.S. (<i>Eng.</i>),	London, England.
Frederick Arnold Stevenson, L.D.S. (<i>Prov. Luebec</i>),	
D.D.S. (<i>Bishops College</i>),	Montreal, Canada.
Charles Bryant Titcomb.	San Francisco, Cal.

1889.

Fred. Anthony Arnold,	Newport, R. I.
Henry Jefeins Borton,	St. Petersburg, Russia.
Charles Poor Briggs, A.B., M.D. (<i>Harvard</i>),	Boston.
William Frederick Gay,	Boston.
Paul Grünewald,	Frankfurt am Main, Germany.
Frank Irving Hammond,	Providence, R. I.
Frederick Sylvanus Hopkins,	Boston.
Daniel Albion Jones, B.A., M.D. (<i>Yale</i>),	New Haven, Conn.
William Russell Jones,	Wakefield.
William Lombardino,	Berlin, Germany.
Patrick William Moriarty,	Boston.
William Curren O'Leary,	New York, N. Y.
Arthur Henry Osgood, A.B. (<i>Harvard</i>),	Boston.
Caleb Heath Shepard,	*1892.
Frederic Ervin Twitchell,	Willmar, Minn.
Eugene Jakob Wetzel,	Mülhausen, Alsace, Germany.
James Robert White,	No. Adams.

1890.

Sidney Roland Bartlett, S.B. (<i>Mass. Inst. of Tech.</i>),	Colorado Springs, Colo.
Harry Oliver Bixby,	No. Cambridge.
Benjamin Howard Codman,	Boston.
Edwin Hartley Dixon,	New York, N. Y.
Arthur Warren Eldred,	Worcester.
Charles Manning Keep, M.D. (<i>Harvard</i>),	Boston.
Charles Elmer Luce,	Stuttgart, Germany.
Kotai Masuda,	Yokohama, Japan.
Arthur Judson Oldham,	Boston.
Hermann Paal,	Dresden, Germany.
Charles Ernest Perkins,	Brockton.
Oscar Pulvermacher,	Berlin, Germany.
Edward Rolfe,	Lexington.
Elbridge Abbott Shorey,	Dover, N. H.
Frank Turner Taylor,	South Boston.

1891.

Paul Henri Jules Boitel,	Vevey, Switzerland.
Georges Antoine Brouillet,	Boston.
Alexander Humboldt Fisher,	Boston.
Adin Albert Goldsmith, D.D.S. (<i>Univ. of Penn.</i>),	London, England.
Amos Irving Hadley,	Boston.

George Meads Holden,	Hackettstown, N. J.
Shimpei Nobutsune Isawa,	Tokyo, Japan.
George Martin, D.D.S. (<i>Univ. of California</i>),	Berlin, Germany.
Clarence Moore Noble,	Providence, R. I.
Hugh Owen,	Auckland, New Zealand.
Joseph Totten Paul,	Boston.
George Barnum Perry,	Chicago, Ill.
William Fuller Sharp, D.D.S. (<i>Univ. of California</i>),	San Francisco, Cal.
Fred Homer Woodcock,	*1895.

1892.

Edward Stanley Bryant,	Palmer.
Allen Stanley Burnham,	Gloucester.
Charles Edward Bugbee Chase,	So. Framingham.
Willard Eben Curtice,	Boston.
Kirk Addison Davenport, D.D.S. (<i>Univ. of Penn.</i>),	London, England.
Ernest Frederick Gabell,	Red Hill, Surrey, England.
Theodore Hallett,	Boston.
Herbert Frederic Hill,	London, England.
Albert Edward Hulme,	Andover.
Richard Carl Moritz,	London, England.
Harry Snow Parsons, M.D. (<i>Bowdoin</i>),	Boston.
Henry Robinson Peach,	Salem.
Henry Edward Rose, L.D.S.I.	Birmingham, England.
Nathan Prindle Wyllie,	Boston.

1893.

Charles Oscar Cummings, A.B. (<i>Dartmouth</i>),	*1894.
Frank Roberts Dickerman,	Taunton.
George William Field, Jr., L.D.S.I.	Boston.
George Rufus Gray, D.D.S. (<i>Univ. of Penn.</i>),	Worcester.
Joseph Geiger Grove, Jr.	Waverly, Ohio.
Max Hanau,	Nürnberg (Bavaria), Germany.
Arthur John Lamere,	Fitchburg.
Richard Pearson, M.B., B.S. (<i>Durham Univ.</i>),	
M.R.C.S., L.R.C.P.	London, England.
Edward Melville Quinby, M.R.C.S., L.R.C.S. (<i>Eng.</i>),	Liverpool, England.
Charles Hudson Quirk, M.D. (<i>Harvard</i>),	Buenos Ayres, Argentine Rep.
Frederick King Richardson,	New York, N. Y.
William Bertram Sansom, L.D.S., R.C.S. (<i>Eng.</i>),	London, England.
John Joseph Smith,	*1894.
Frank Merrett Wilkinson,	Perth, West Australia.

1894.

Eugene Everett Arnold,	Warren, R. I.
Joseph Bergin Belliveau,	Boston.
Joseph Boylston,	Portsmouth, N. H.
Thomas Bernard Hayden,	Boston.
Jay Reuben Holton,	St. Louis, Mo.
Gustave Joseph Inderbitzen,	Bern, Switzerland.
Arthur Jackson,	Boston.
Frederick William Percival,	Peterborough, England.
Thomas Edward Quinn,	Boston.
Fred Gibson Robbins, M.D. (<i>Harvard</i>),	Boston.
Arthur Galusha Smith,	No. Peoria, Ill.
George Lund Taft, A.B. (<i>Boston Univ.</i>),	Cambridge.
Louis Napoleon Veo,	Boston.
William Joseph Walton,	Dorchester.

1895.

Ernst Sixten Arvedson, L.D.S.	Stockholm, Sweden.
Edward Doane Barrows,	Berlin, Germany.
Robert Lander Bartlett,	Lynn, Mass.
Clarence Augustus Carr, A.B., A.M. (<i>Brown Univ.</i>),	Newport, R. I.
Walter Strout Coleman,	Portland, Me.
Dwight Ward Dickinson,	Boston.
Percy Edgelow, M.R.C.S. (<i>Eng.</i>), L.R.C.P. (<i>Ed.</i>),	London, England.
James Austin Furfey,	Boston.
Marquis D. Littig, D.D.S. (<i>Univ. of Penn.</i>), M.D. (<i>Tufts</i>),	Boston.
Frederick Everett Meader,	Boston.
Richard Dyer Milliken,	Saco, Me.
Robert Tucker Moffatt,	Boston.
Henry Clinton O'Brien,	Boston.
Patrick Henry O'Connor,	Seattle, Wash.
Francis Wheeler Rice,	Brunswick, Me.
Leopold Scheuermann,	Berlin, Germany.
Arthur H. Woodcock,	Boston.

1896.

Francis Hornes Barnard, Jr.,	Boston.
Edgar Casper Bienemann,	London, England.
Asher Harriman St. Clair Chase,	Everett.
Ernest Howard Chute,	Dedham.
Charles Winfield Crane,	Lynn.

Harold DeWitt Cross,	Nashua, N. H.
John Walter Emery,	Boston.
Edwin Linwood Farrington,	Lowell.
Adelbert Fernald,	Boston.
Guy Webster Gilbert,	Ipswich.
Harry Sargent Gilman,	Boston.
Harry West Haley,	Boston.
Harvey Winchester Hardy,	Boston.
Harry Morrill Haynes,	Boston.
Robert John McMeekin,	Boston.
James Francis Martin,	Springfield.
Edward Wakefield Matthews,	Yarmouth.
Charles Everett Monroe,	Atlantic.
Thomas Kennedy Ross,	Fitchburg.
Philipp Johann Alexander Stadelmann,	Frankfort-on-the-Main, Germany.
Walter Irving Sweet,	Providence, R. I.
Charles Frederick York, Jr.,	Rockport.

EXAMINATION PAPERS.

(*Annual Examinations, 1896.*)

First Year's Studies.

FIRST YEAR ANATOMY. — Professor DWIGHT.

1. Describe the radius.
 2. Describe the capsule of the hip joint.
 3. Describe the deltoid and the popliteus muscles.
 4. Describe the stomach (omitting the mucous membrane).
 5. Describe the ulnar artery as far as the wrist.
 6. Describe the third ventricle.
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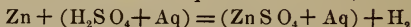
PHYSIOLOGY. — Professor BOWDITCH.

[Number the answers to the questions without copying the questions themselves. Do not number the pages of the book. Answer the questions in order, writing on each page in succession.]

1. What is the main difference between the metabolism of plants and of animals?
2. What is the value of gelatine as food?
3. Explain the heart sounds and state their prime relations to ventricular systole and diastole.
4. What is the function of haemoglobin and how may its amount be determined?
5. What is the effect of muscular activity upon the excretions of the body?
6. What are the most important means of temperature regulation in the human body?
7. What changes are seen in the cells of the pancreas during active digestion?
8. What are the functions of the third pair of cranial nerves?
9. What are the functions of the retinal rods and cones?
10. What is the effect on respiration of cutting both pneumogastric nerves.
11. What is the principle of resonance and what is its application in the ear?
12. What tissues waste most completely in starvation?
13. Describe an experiment illustrating inhibition.
14. Prove that the spinal cord is a centre of reflex action.

GENERAL CHEMISTRY. — Professor W. B. HILLS.

1. What is the difference between a molecule and an atom? What is the atomic weight and molecular weight, of hydrogen; oxygen?
2. Distinction between a physical and a chemical change?
3. Define valence, giving examples.
4. What is water of crystallization?
5. What information does the equation



give in regard to the process represented by it?

6. Sources of chlorine; bromine; iodine; phosphorus; sulphur?
7. Describe the properties of nitrous oxide.
8. What are alloys? amalgams?
9. Sources of the compounds of sodium; potassium; ammonium?
10. Describe briefly the properties of ammoniac hydrate; sulphuric acid; sodic hydrate; mercuric chloride; potassic permanganate.



BACTERIOLOGY. — Professor ERNST.

1. Gram's method of Staining.
2. Typhoid bacilli, — describe them.
3. Different methods of sterilization, — how can they be accomplished?

HISTOLOGY. — Professor C. S. MINOT.

[These preparations, numbered to correspond with the first three questions below, are given to each student. The drawings required are intended only to show correct observation and identification on the part of the student.]

1. Identify the specimen, and make a drawing to demonstrate the different tissues and layers.
2. Identify the specimen, and draw a muscle fibre.
3. Make a drawing of and identify the parts of the tooth germ.
4. Give a definition both as to origin and structure of *bone*, *dentine*, and *enamel*.

Second Year's Studies.

DENTAL PATHOLOGY. — Professor BRACKETT.

1. What are indications of the presence of pus in tissues?
2. In general terms what history precedes formation of pus?
3. The local etiology of neuralgia.
4. What pathological states are possible to the tooth pulp?
5. To which of the dental and contiguous tissues may atrophy come?

6. How may harm come from arsenical applications in teeth?
7. Of what may particular sensitiveness of a tooth to heat be indicative?
8. What classification may be made of carious cavities in teeth?
9. What coloration may dental caries present, and of what are the different shades indicative?
10. Varieties of deposits upon teeth, and local and systemic conditions consequent upon the presence of the deposits.
11. Chemical conditions influencing the sensitiveness of carious cavities?
12. The influence of heredity upon the teeth.
13. The differentiation of benign and malignant new growths.
14. What is the natural process of stopping the flow of blood from the socket of an extracted tooth?
15. What is an abscess?
16. What are among possible consequences of neglected alveolar abscesses?
17. What are among the more frequently occurring permanent destructions of tissues about the face and mouth consequent upon syphilis?
18. What are the essential agencies conveying infectious diseases from one person to another?
19. What is the more frequent cause of the non-absorption of the roots of the deciduous teeth when their permanent successors are taking their places?
20. What prophylactic purposes are served by cement linings under large metal fillings in deep cavities?

MATERIA MEDICA AND THERAPEUTICS. — Prof. BRIGGS.

1. Write a prescription for 30 gms. of a 20% sol. of cocaine.
2. Chloroformum.
3. Name and describe an analgesic.
4. Coca Erythroxyton.
5. Hydrargyrum.
6. Acid Arseniosum.
7. Trinitrin.
8. Name and describe two hypnotics.
9. Counterirritants.
10. Piperazin.

ORAL ANATOMY AND PHYSIOLOGY. — Asst. Professor STANTON.

1. Why may the teeth be properly termed "dermal appendages"?
2. Describe the Intermaxillary Bone, and the result of an arrest of its development.
3. Give the physical characteristics of Dentine, Enamel, and Cementum.
4. What are the functions of the Pulp in a fully formed tooth.

5. How is the Primitive Dental Groove formed?
6. Mention the Primary Germinal Layers and the tissues into which they develop.
7. Describe the calcification of Dentine.
8. In how many ways is Bone formed, and what has Meckel's cartilage have to with the development of the Lower Jaw?
9. In what manner would you determine the growth of an adult jaw as compared to that of a nine months child?
10. What are the physical signs of a Syphilitic mouth?

Third Year's Studies.

CROWN AND BRIDGE WORK AND METALLURGY.

Dr. W. P. COOKE.

1. What difficulties have you met in your practical crown and bridge work? How would you avoid them?
 2. How would you insert a Bonwill crown? Give its good and bad points.
 3. Case of upper cuspid with fistula; root strong, but tooth broken off nearly at gum line. Would you crown such a root? If so, why, and how?
 4. How would you obtain the relation of a post and solder it to a banded crown?
 5. How would you make a Richmond, porcelain-faced, bi-cuspid crown?
 6. How would you anneal gold, silver, platinum, german-silver?
 7. Describe fully the process of soldering.
 8. Describe the difference between cast-iron, steel, and wrought-iron. How would you temper steel?
 9. Give several methods of inserting a porcelain tip. State some of the difficulties in porcelain inlay or tip work.
 10. What are the materials used in making soft, spelter, silver, and gold solders?
 11. A superior central incisor has a banded crown, gold shows at cervix badly, and the joint of porcelain and gold is very dark. Give treatment.
 12. Under what conditions is it necessary to consider the contour of a crown? How contour a finished bi-cuspid all metal crown?
 13. Mention several important points to be decided when considering whether it is best to use crown or bridge work.
 14. Give method in full of bridging from cuspid to cuspid, lower jaw, the four incisors having been lost.
 15. State difficulties of repairing crowns and bridges. How would you remove and repair a Richmond porcelain-faced superior central incisor?
- Illustrate the above questions with simple drawings.

MECHANICAL DENTISTRY. — Professor SMITH.

1. CASE. — A woman fifty years of age; lower teeth missing excepting the cuspids and incisors; upper teeth missing excepting the first bicuspid on either side; some caries and salivary calculus. What kind of denture would you recommend, and what would be your treatment preparatory to the taking of the impressions?

2. Describe the process of taking an impression.

A. — With plaster.

B. — With modelling compound.

3. Differentiate between cases that require an impression taken with plaster and those that require an impression taken with modelling compound.

4. Describe the process of making a metallic die and counter die from the impression for a partial denture.

5. Describe the mechanical treatment of a congenital cleft palate.

6. A. — What are some of the advantages and disadvantages of a continuous gum case?

B. — How is a continuous gum case made?

7. Describe the making of an artificial denture with a celluloid base.

8. How would you treat a double fracture of the lower jaw, — one fracture at the symphysis, the other fracture near the ramus?

9. What is vulcanite rubber?

10. A. — What are the components of dental porcelain?

B. — What are the coloring materials?

OPERATIVE DENTISTRY. — Professor FILLEBROWN.

1. Describe alveolar abscess, cause, progress, and symptoms of each stage, — treatment for each stage?

2. What are the merits and demerits of, Gold, Amalgam, Gutta-Percha, and Oxy-phosphate-sinc as filling materials?

3. How produce temporary separations of teeth? How produce permanent separations?

4. What rule should be observed in exposing and opening proximal cavities in front teeth?

5. Name conditions of Dental Pulp as affected by caries, give symptoms of each and treatment of each?

6. Describe Phagedenic Pericementitis? Cause, progress, treatment, prognosis?

7. What general rule for treatment of first permanent molars?

8. (a) Describe Transplanting teeth. (b) How long may a tooth be kept out of the mouth and successfully transplanted?

9. Describe the accidents liable to occur during extraction of the teeth?

10. How can hemorrhage from the tooth socket be arrested?

11. (*a*) Describe Anaesthesia; (*b*) Compare chloroform, ether, and gas; (*c*) Signs of different stages of Anaesthesia; (*d*) Signs of danger; (*e*) Means of resuscitation?

12. What is a combination Filling?

13. (*a*) Describe a cavity in a central incisor in which a Combination Filling would have an advantage over one entirely of gold. (*b*) Describe making a combination Filling in such a case.

14. How can moist heat be employed to sterilize dental instruments?

15. How can rust be guarded against during this process?

ORTHODONTIA. — Professor SMITH.

1. What constitutes an irregularity of the teeth?

2. Mention the causes of irregularities.

3. Mention the four types of abnormal dental arches and the causes for their difference.

4. What is congenital maxillary asymmetry?

5. What is hypertrophy of the alveolar process?

A. — Cause.

B. — Treatment.

6. Cite a case where you would, and where you would not, extract a superior lateral incisor for the correction of an irregularity.

7. Mention and explain the construction of the devices for widening the upper and lower dental arch.

8. What is the relative anchorage value of different teeth, and how can the strongest resistance be obtained while moving in outstanding anterior teeth?

9. Mention the devices for drawing instanding and outstanding teeth to line, and for turning teeth in their sockets.

10. Explain the relative aesthetic and practical value of individual teeth — permanent and temporary — in their relation to irregularities.

SURGICAL PATHOLOGY. — Dr. MONKS.

1. What are the phenomena of acute inflammation in the soft parts?

2. What is the difference, pathologically and clinically, between caries and necrosis?

3. Describe the healing of wounds by first and by second intention.

4. Describe the appearance of an ulcer in its advancing, stationary, and healing stages.

5. The symptoms and treatment of erysipelas.

6. What is the difference between a sinus and a fistula?

